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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No. CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-29-101** **Date: 29-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	-
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	CP-2019-01-29-101
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 24-04-18**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-29-101** **Date: 29-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-03-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7448	7686	51.2	48.8	30-70
4	10 mm	5488	13174	87.8	12.2	10-35
5	4.75 mm	1495	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-29-101**

Date: 28-03-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 28-03-18

Lab ID	:	CP-2019-01-29-101
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	14	14	1.4	98.6	90-100	90-100	90-100	95-100
3	2.36 mm	214	228	22.8	77.2	60-95	75-100	85-100	95-100
4	1.18 mm	187	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	202	617	61.7	38.3	15-34	35-59	60-79	80-100
6	300 micron	137	754	75.4	24.6	5-20	8-30	12-40	15-50
7	150 micron	187	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Format No: CP/TF/01

Date: 13-04-18

Lab ID	:	**CP-2019-01-29-101**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-18
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.53	100.49	1.116	4480	81.2	18.1	16.9	21.1
2	Cover Slab-2	75.51	100.52	1.122	4477	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2018

Lab ID	:	CP-2019-01-29-101
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	16/04/2018	23/04/2018	151.06 X 151.41 X 150.64	22873	8.158	433.8	19.0	18.5
2	Drain Bottom Slab Concrete	M20	16/04/2018	23/04/2018	151.76 X 150.52 X 151.47	22843	8.104	413.3	18.1	
3	Drain Bottom Slab Concrete	M20	16/04/2018	23/04/2018	149.52 X 151.25 X 151.01	22614	8.471	417.3	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2018

Lab ID	:	CP-2019-01-29-101
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/04/2018	23/04/2018	151.09 X 151.21 X 149.27	22847	**8.158**	417.9	18.3	18.7
2	Drain Bottom Slab Concrete	M20	16/04/2018	23/04/2018	150.33 X 151.68 X 149.09	22801	**8.104**	428.6	18.8	
3	Drain Bottom Slab Concrete	M20	16/04/2018	23/04/2018	150.37 X 150.41 X 151.88	22618	**8.471**	429.5	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2019-01-29-101**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 26/04/2018**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Kammagondenahally Rama Temple Backside Road and Surrounding area in Ward No.12 Shettyhalli,Shettyhalli Sub Division.
Agency	:	Technical Mnager (West),KRIDL,Project Implimentation Unit, No.280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara,Bangaluru-560010.
Customer's Reference	:	BBMP/KK/DD/WO/327/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-18
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/04/2018	26/04/2018	149.58 X 149.59 X 149.62	22377	**8.158**	424.5	19.0	18.7
2	Drain Side Wall Concrete	M20	19/04/2018	26/04/2018	150.46 X 151.54 X 150.94	22802	**8.104**	421.3	18.5	
3	Drain Side Wall Concrete	M20	19/04/2018	26/04/2018	150.35 X 149.44 X 149.57	22468	**8.471**	419.5	18.7	

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